

Amendments to the Claims

Claims 1-6 (Canceled)

Claim 7 (currently amended) A wastewater treatment system comprising:

- a) means ~~of for~~ decontaminating wastewater;
 - b) means ~~of for~~ measuring control parameters of the wastewater;
 - c) means for controlling said means for decontaminating wastewater
~~decontamination means~~; and
 - d) a programmable logic controller,
- wherein a user receives control parameter data and controls said wastewater treatment system from a remote location,
- wherein said means for decontaminating wastewater ~~decontamination~~

~~means~~ comprises:

- i.) a coagulation stage;
 - ii.) an energized magnetic media filtration stage;
 - iii.) an accelerated electro-chemical oxidation stage; and
 - iv.) a sludge and media handling stage,
- wherein said coagulation stage comprises a primary reactor,
- wherein said primary reactor includes a grinder, means for rotating the
primary reactor ~~loosening means~~, and an energized media bed.

Claim 8 (currently amended) The wastewater treatment system of claim 7, ~~further~~
~~comprising~~ wherein the energized media bed further comprises perforated titanium plates.

Claim 9 (currently amended) The wastewater treatment system of claim 7, ~~further comprising wherein the energized media bed further comprises~~ bi-polar electrodes connected to either end of said primary reactor.

Claim 10 (original) The wastewater treatment system of claim 9, wherein said bi-polar electrodes comprise:

a fixed anode;

a fixed cathode; and

a power supply wherein said power supply is attached to said anode and said cathode for producing an electrical current through said primary reactor.

Claim 11 (currently amended) The wastewater treatment system of claim 7, wherein the sludge and media handling stage comprises an ultrasonic transducer positioned within the primary reactor, capable of creating pneumatic, hydraulic, ultrasound or elector-magnetic vibrations~~said loosening means comprise at least one of vibrational, rotational, pneumatic, hydraulic, or electromagnetic.~~

Claim 12 (canceled)